

FIG. 1A-1

Murine	TREX	1	MTGYTMLRNGG	ENG	QTCMLRWSNRIRL	TWLSFTLFI	ILVFFPLIAHYLT	TLDEADEA
Human	TREX	1	MTGYTMLRNGG	ENG	QTCMLRWSNRIRL	TWLSFTLFI	ILVFFPLIAHYLT	TLDEADEA
Murine	TREX	61	GKRIFGPR	GSE	LCVCEVHVLD	CR	RESVSEELLQ	EAKRQELNSE
Human	TREX	61	GKRIFGPR	GSE	LCVCEVHVLD	CR	RESVSEELLQ	EAKRQELNSE
Murine	TREX	121	ENAKQD	LLQ	LNKVV	Q	TEHSYKELMAQ	NQPKLSLPIRL
Human	TREX	121	ENAKQD	LLQ	LNKVV	Q	TEHSYKELMAQ	NQPKLSLPIRL
Murine	TREX	181	NCFDYSRC	PLTSGF	PVVVYDSQFA	FG	SYLDPLVKQAFQAT	VRANVVTVENA
Human	TREX	181	NCFDYSRC	PLTSGF	PVVVYDSQFA	FG	SYLDPLVKQAFQAT	VRANVVTVENA
Murine	TREX	241	LVGEMQEP	NVLRPA	LEKQL	PSL	PHWRTDGHNVH	VLINLSRKSDTQNL
Human	TREX	241	LVGEMQEP	NVLRPA	LEKQL	PSL	PHWRTDGHNVH	VLINLSRKSDTQNL
Murine	TREX	300	STL	TAQVRA	QVRA	QVRA	QVRA	QVRA
Human	TREX	301	STL	TAQVRA	QVRA	QVRA	QVRA	QVRA
Murine	TREX	360	RSFEEEMEGD	PPADY	DDRI	IATL	KAQVDSKLQVLVEFT	CKNQPKPSLPT
Human	TREX	361	RSFEEEMEGD	PPADY	DDRI	IATL	KAQVDSKLQVLVEFT	CKNQPKPSLPT
Murine	TREX	420	RIEL	LKLS	STFALI	ITPGD	PRLL	SSGCA
Human	TREX	421	RIEL	LKLS	STFALI	ITPGD	PRLL	SSGCA
Murine	TREX	480	AA	LVPKPRV	TEVHE	FL	RL	SLSD
Human	TREX	481	AA	LVPKPRV	TEVHE	FL	RL	SLSD

FIG. 1A-2

Murine	TREX	540	PAAPITREEDAAEIPHRSGKAAGTDNNMADNGDLDLGPVETETPPYASPKYLRNFTLTVTDC
Human	TREX	541	PAAPITREEDAAEIPHRSGKAAGTDNNMADNGDLDLGPVETETPPYASPKYLRNFTLTVTDF
Murine	TREX	600	YRGMSAPGCFHLFPHTPFDPVLPSEAKFLGSGTGFRPIGGGAGGSGKFEQALGQVQR
Human	TREX	601	YRSMNAPGCFHLFPHTPFDPVLPSEAKFLGSGTGFRPIGGGAGGSGKFEQALGQVPR
Murine	TREX	660	EQFTVVMLTYEREVLMNSLERLNGLPYLANKVVVWNSPKLPSEDLLMPDIGVPIINVVRT
Human	TREX	661	EQFTVVMLTYEREVLMNSLERLNGLPYLANKVVVWNSPKLPSEDLLMPDIGVPIINVVRT
Murine	TREX	720	EKNSLNNRFLPWNEIETEAILSIDDDAHLRDEIMFGFVWREARDRIVGFPGRYHAWDI
Human	TREX	721	EKNSLNNRFLPWNEIETEAILSIDDDAHLRDEIMFGFVWREARDRIVGFPGRYHAWDI
Murine	TREX	780	PHQSWLYNSYNSCELSMWLTGAAPFKYAYLYSYVMPQAIRDMVDEYINCEDIANNFLV
Human	TREX	781	PHQSWLYNSYNSCELSMWLTGAAPFKYAYLYSYVMPQAIRDMVDEYINCEDIANNFLV
Murine	TREX	840	SHITRKPPIKVTSRWTFRCGCPQALSHDDSHFERHKCINFFVKVYGYMPLLYTQFRVD
Human	TREX	841	SHITRKPPIKVTSRWTFRCGCPQALSHDDSHFERHKCINFFVKVYGYMPLLYTQFRVD
Murine	TREX	900	SVLFKTRFLPHDKTKCFKFI
Human	TREX	901	SVLFKTRFLPHDKTKCFKFI

	1	414	538	658	919
hTREX	1	414	538	658	919
hEXT2	1	299	418	451	718
hEXT1	1	311	434	476	746
hEXTL1	1	251	373	415	676
hEXTL2	1	61			330
rib-2	1	317	437	556	814

414 LAGE-----REDRLRLKLSLHILITPGDPRVILSSCAFEALPEVGAFFVAVLSEVQVLYRDMIL  
429 FCHK-----HQVFTYFQVLR--RQVL-----GQA-VLSDVLQVGVAVIADSVLPESEVIL  
311 RQRDNTXEYKVTYVQVLR--RGRRL-----GSF--FFLEALQACVYVLSNGWELDESEVIN  
251 RQDDRGPGQT--QDRLVPL--LRLSIS--GHRPE-----AAS-FFELQACAGIPLYLPRVELPESEVIN  
317 KSGQENCSLERR-R-LQIGSSSRA-----FLPSEMPDQFISSDGQGLPILLSNQLLPLPQDMLH

478 INEALIVAKPRVTHFLPLSLSSDLNLRSGRFLPHTLPTPTADSEVNTLQMTETEL  
358 KESVYVPEKMSDNYSLSPORHEEAKQAFWEKYPQSLKALALQLTNDRL  
374 ANQAVIGERPLLOLPSTSTHODKAL--LQCTQV--LSEVKEVLALEHLLQDRL  
313 ITAN--LWDRPLQPLALDMSPARVLLPQDRLDYSSEYKVIHTFTEVQRI  
377 WAEFTYRLCARLPEAHFTVLEFELSDIEEYVGLFETLADRHLLARSLSLALRYKL

FIG. 1D

# 658 VPREOITVIM 451 POSOGFAIVLE 476 HPSK--WAMH 415 BEGR--EALW-VGPP-- 61 STMDST--TLMW-- 556 RQBQOATVIM 723 NSTNNRITAMN 517 KEMNATP 544 KMSK-- 477 KY--BORT-- 129 NMNR-- 620 N 791 YS-- 586 W-- 612 W-- 544 R-- 201 GSGNGDOY 686 HT-- 859 654 680 ETAMGOTSRA 612 EAPLAPGCG 752 -LEKETSNG 774 GTC-C- hTREX hexT2 hexT1 hexT1L hexT1L2 rib-2 hTREX hexT2 hexT1 hexT1L hexT1L2 rib-2 hTREX hexT2 hexT1 hexT1L hexT1L2 rib-2 hTREX hexT2 hexT1 hexT1L hexT1L2 rib-2

FIG. 1E-1

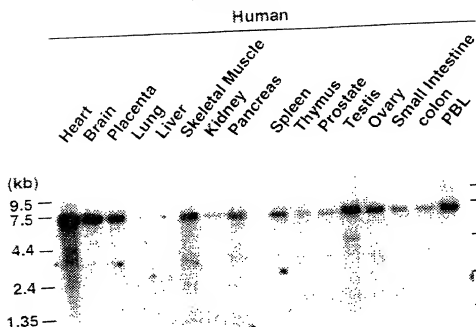


FIG. 1E-2

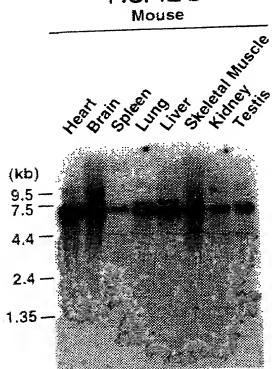


FIG. 1F

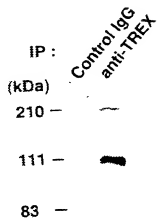


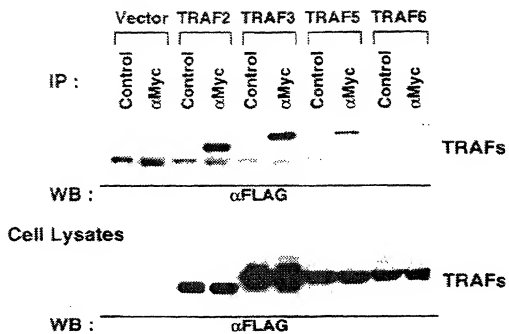
FIG. 2A *In vivo* binding

FIG. 2B

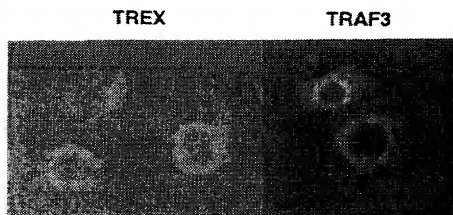


FIG. 3

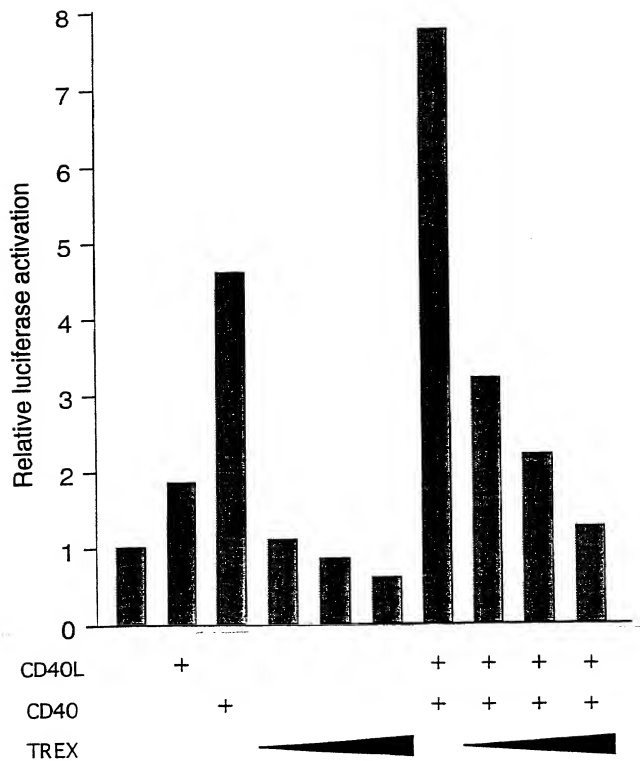
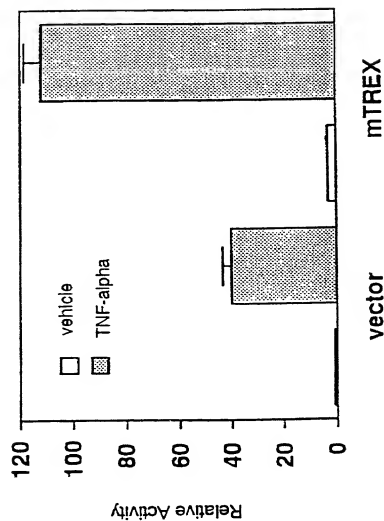




FIG. 4

Effect of mTREX on TNF-alpha-induced  
NF-kappaB activation in HEK 293 cells



n=3 980707

FIG. 5B

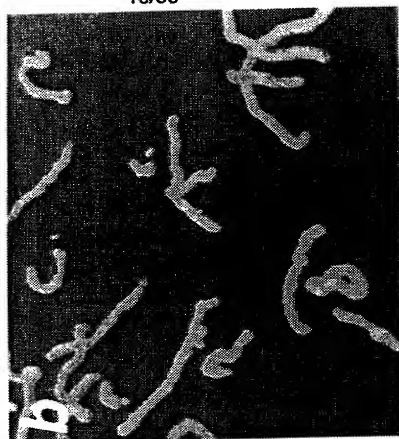


FIG. 5A

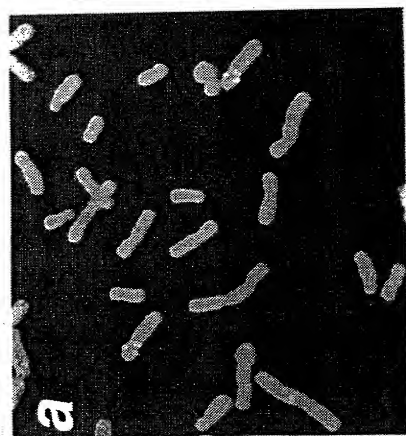


FIG. 6

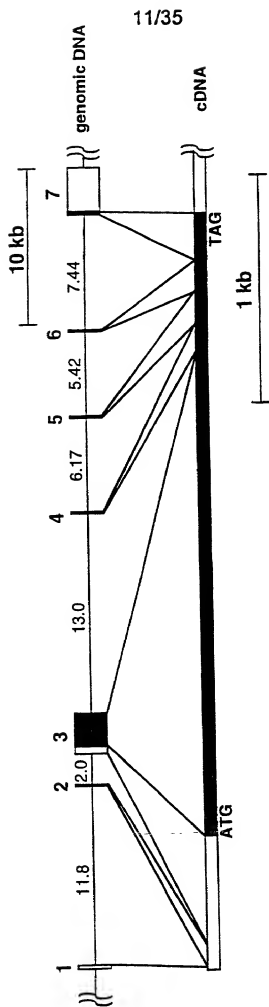






FIG. 7B-1

10	20	30	40	50	60
cctgatcgttggtagtggaatggaagcaggggctggcatttcagactgccagctgttttt					
70	80	90	100	110	120
accagccgctgcacatccttgatagaagctatgcataattggctggccgacaaagccaagg					
130	140	150	160	170	180
gacaaaagctatggccgttaaaatgggtccctctgagtcagggtcctttccctggctttt					
190	200	210	220	230	240
agcaccatggatctcttccctttcatcccatcagcaatgtggtacctctcttctacttgat					
250	260	270	280	290	300
gatgcacgctgatacttcagattgcctgactaagggttagaaaacctgaatcgctgtgagg					
310	320	330	340	350	360
aagatgaaatttccattttacttggtgccttgtgcaggggagcacactgatccttccagaa					
370	380	390	400	410	420
acttgtgtgtgaaaagaggttgcgttttgtgcacagactcatggttatggcgagcgatc					
430	440	450	460	470	480
cgacgtgatcagagtgggcaagaggcacagcgaaactcatgcagggctataaccatgctgcg					
			M	T	G
490	500	510	520	530	540
gaatgggggagtggggaacgggtggtcagacctgtatgcctgcgctgggtccaatcgatccg					
N	G	G	V	G	N
G	G	Q	T	C	M
L	R	W	S	N	R
I	I	R			
550	560	570	580	590	600
gctgacatggctgagtttcacgctgttcacatcctcgtctcttcttccccctcattgctca					
L	T	W	L	S	F
T	L	F	I	I	L
V	F	F	F	P	L
I	A	H			
610	620	630	640	650	660
ctattacctcaccactctggacgaggcagacgaggctggcaagcgcatcttctggccctcg					
Y	Y	L	T	T	L
D	E	A	D	E	A
G	K	R	I	F	G
P	R				
670	680	690	700	710	720
ggctggcagtgagctctgtgaggttaaagcatgtcctcttgatctctgtcgggattcgtgac					
A	G	S	E	L	C
E	V	K	H	V	L
D	L	C	R	I	R
E	S				

00000000000000000000000000000000

730	740	750	760	770	780
tgtgagcgaagagcttctacagctcgaagccaagcggcaggagctgaacacgcgagattcgc					
V S E E L L Q L E A K R Q E L N S E I A					
790	800	810	820	830	840
caagctgaacctcaagattgaagcctgttaagaagagcatagagaatgccaaagcaggacctg					
K L N L K I E A C K K S I E N A K Q D L					
850	860	870	880	890	900
gctgcagctcgaagaatgtcattagccagacagagcactcctacaaggagctgatggccca					
L Q L K N V I S Q T E H S Y K E L M A Q					
910	920	930	940	950	960
gaaccagcccaaactgtccctgcccatccgactgctccctgagaaggacgatgccggctg					
N Q P K L S L P I R L L P E K D A G G L					
970	980	990	1000	1010	1020
tccaccccccaaggtcactcgggggttgccgccttcacaaactgctttgattactctcgttg					
P P P K V T R G C R L H N C F D Y S R C					
1030	1040	1050	1060	1070	1080
tcctctgacgtctctggctttcccgctctacgctctatgacagtgaccagtttgcctttgggag					
P L T S G F P V Y V Y D S D Q F A F G S					
1090	1100	1110	1120	1130	1140
ctacctggacccttttggtcaagcaggtctttcaggtcacagtgagagccaactgtttatgt					
Y L D P L V K Q A R F Q A T V R A N V Y V					
1150	1160	1170	1180	1190	1200
tacagaaaaatcgggccatcgccctgcctgtatgtggtgttagtgggagagaatgcaagagcc					
T E N A A I A C L Y V V L V G E M Q E P					
1210	1220	1230	1240	1250	1260
cactgtgtctgcggcctgcggaccttgaaaagcagctgttttctctgccacactggaggac					
T V L R P A D L E K Q L F S L P H W R T					
1270	1280	1290	1300	1310	1320
agatggggcacaaccaactgcattatcaacctgtcccgggaagtgcagacacacagaactctact					
D G H N H V I I N L S R K S D T Q A N L L					
1330	1340	1350	1360	1370	1380
gtacaacgtcagtcacaggcccgccatgtgggccaggtccaccctctatgctgcccgactacag					
Y N V S T G R H V A Q S T L Y A A Q Y R					
1390	1400	1410	1420	1430	1440
agctggcttgacactggctgtgtgcacccctttgttcattgctatgtctggaacccaacttcat					
A G F D L V V S P L V H A M S E P N F M					
1450	1460	1470	1480	1490	1500
ggaaatccccacgcagggtgcagcttaagcgggaataatctcttcactttccaggcgagaa					
E I I P P Q V P V K R K Y L F T F O G E K					

2230 2240 2250 2260 2270 2280  
cctccgcaattttcactctgactgtcacagactgttaccgtggctggaactctgccccggg  
L R N F T L T V T D C Y R G W N S A P G

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FIG. 7B-4

2290 2300 2310 2320 2330 2340  
 acgggtccatctctttttccacacacccctttgatccctgtgttgccctctgaggccaaatt  
 R F H L F P H T P F D P V L P S E A K F

2350 2360 2370 2380 2390 2400  
 cttgggtctcagggaactggatttcggccgatcgggtgggggctctggcgaagga  
 L G S G T G F R P I G G G A G G S G K E

2410 2420 2430 2440 2450 2460  
 gttccaggcagcgtcggaggcaatgtccagcgggagcagttcacagttgtgatgctgac  
 F Q A A L G G N V Q R E Q F T V V M L T

2470 2480 2490 2500 2510 2520  
 ctacgagcgggaggaagtgtctcatgaactccctggagagactcaacggcctccccctacct  
 Y E R E E V L M N S L E R L N G L P Y L

2530 2540 2550 2560 2570 2580  
 gaacaaggttagtggtgtggaactctcccaagctgcctcggagacattttgtggcc  
 N K V V V V W N S P K L P S E D L L W P

2590 2600 2610 2620 2630 2640  
 agacattggtgtcccatcatggtgtcgtactgagaagaacagtttgacaatcgggt  
 D I G V P I M V V R T E K N S L N N R F

2650 2660 2670 2680 2690 2700  
 cttgccctggaatgagattgagacagaggccatactgtccatcgacgatgatgctcacct  
 L P W N E I E T E A I L S I D D D A H L

2710 2720 2730 2740 2750 2760  
 ccgcatgatgaaatcatgttttgggttttgggtgtggagagaagcacggtgatcgattgt  
 R H D E I M F G F W V W R E A R D R I V

2770 2780 2790 2800 2810 2820  
 ggggttccctggccgggtaccatgcgtgggacatcccgccaccagtccttggtcttacaattc  
 G F P G R Y H A W D I P H Q S W L Y N S

2830 2840 2850 2860 2870 2880  
 caactactcctgtgagctgtccatggtgtgtgacgggcgctgccttctttcacaagtatta  
 N Y S C E L S M V L T G A A F F H K Y Y

2890 2900 2910 2920 2930 2940  
 tgctactctgtattcttatgtgatgccccaggccatccgggacatggtggacaggtacat  
 A Y L Y S Y V M P Q A I R D M V D E Y I

2950 2960 2970 2980 2990 3000  
 caactggaggatcgtccatgaacttccctgtctcccatcacacgggaaccccccat  
 N C E D I A M N F L V S H I T R K K P P I

3010 3020 3030 3040 3050 3060  
 caaggtgacatcaaggtggacttttcgatgccccagggtgccctcaggccctgtcccatga  
 K V T S R W T F R C P G C P Q A L S H D

CG50070.031601

3070	3080	3090	3100	3110	3120
tgactctcattttcacgagcgggcacaagtgtatcaacttttttgtcaagggtgtagcgcta					
D S H F H E R H K C I N F F V K V Y G Y					
3130	3140	3150	3160	3170	3180
tatgcctctctttgtacacacagttcagggtggactcgtgctcttcgaagaccgcctgtcc					
M P L L Y T Q F R V D S V L F K T R L P					
3190	3200	3210	3220	3230	3240
ccatgacaagaccaagtgtctcaagttcacttagggccttgcagttctcgaggagacaattg					
H D K T T K C F K F I *					
3250	3260	3270	3280	3290	3300
agcagagcgagggggagtcacccctcaaggttcccaagggtgtcgaaggctcctggggagcat					
3310	3320	3330	3340	3350	3360
ctgtcgggcaggggccaagacccttctgtgggagaggcagcaggaagagtggaaagggata					
3370	3380	3390	3400	3410	3420
gctgtcttttcattttgaagtcagccactgggcctgggacctctgggtcagagactcaggn					
3430	3440	3450	3460	3470	
cgtctgcacagggcactgactgtagcggaacacttgaggactgttcataagcccgagaca					



FIG. 8A-2

agcccaaac	cagcctgcgc	actgagtggg	cactgtgtgg	agagcgggg	gaccgcttgg
aattgtctgaa	gctctccacc	ttcgccctca	tcattacccc	cggggaccct	cgcttgggta
tttctctctgg	gtgtgcaaca	cggtctctcg	aagccctgga	agtcgggtgcc	gtccccgttg
tgctggggga	gcaggtccag	cttccctacc	aggacatgct	gcagtggaac	gaggcggccc
tggttggtgcc	aaagcctcgt	gttaccgagg	ttcatttctc	gtccagaagc	ctctccgata
gtgacctctc	ggctatgagg	cggaagggcc	gctttctctg	ggagacttac	ttctccactg
ctgacagtat	ttttaatacc	gtgctggcta	tgattaggac	tcgcatccag	atccccagcc
ctcccatccg	ggaagaggcg	gcagctgaga	tccccaccg	ttcaggcaag	gcggctggaa
ctgaccccaa	catggctgac	aacggggacc	tggaacctgg	gccagtgga	acggagccgc
cctacgcctc	accagatac	ctccgcaatt	tcactctgac	tgtcactgac	ttttaccgca
gctggaactg	tgctccaggg	cctttccatc	ttttccccc	cactcccttt	gacctgtgt
tgccctcaga	ggccaaattc	ttgggctcag	ggactggcct	tcggcctatt	ggtggtggag
ctggggggttc	tggcaaggaa	tttcaggcag	cgcttggagg	caatgttccc	cgagagcagt
tcacggtggt	gatgttgact	tatgagcggg	aggaagtgt	tatgaactct	ttagagaggc
tgaatggcct	cccttacctg	aacaaggctc	tggtggtgtg	gaattctccc	aagctgccat
cagaggacct	tctgtggcct	gacattggcg	ttcccatcat	ggttggtccg	actgagaaga
acagtttgaa	caaccgattc	ttacctgga	atgaaattga	gacagaggcc	atcctgtcca
ttgatgacga	tgctcacctc	cgccatgacg	aaatcatggt	tggtgtccgg	gtgtggagag
aagctcggga	ccgcatcgtg	ggcttcccctg	gccgttacca	cgcattgggac	atcccccatc
agtcctggct	ctacaactcc	aactactcct	gtgagctgtc	catgggtcgt	acaggtgctg
ctcttttcca	caagtattat	gcctacctgt	attcttatgt	gatgccccag	gccatccggg
acatggtgga	tgaatacatc	aactgtgagg	acattgccat	gaacttctct	gtctccacca
tcactcggaa	gccccccatc	aaggtgacct	cacggtggac	attccgatgc	ccaggatgcc
ctcaggccct	gtctcatgat	gactcccact	tccacgagcg	gcacaagtgc	atcaactctc
tcgtgaagg	gtacggctac	atgcccctcc	gttacacgca	gttcagggtg	gattctgtgc
tcctcaagac	acgcctcccc	catgacaaga	ccaagtgcct	caagttcatc	taggggcagc
gcctggctctg	gggaagagga	tgagcagagg	gaggaagatg	gctcccagg	ttcctaggca
ttgcaggacc	ttgggcacat	cgctgggtgg	gtggcccaga	gcctctgctg	gaaggggcag
caggaggagt	ggaaggaaac	cgctgccttt	atcttgaa	cagccacact	ggggctggag
ccctggcgct	agtccccggg	gttccccaca	cagggcactg	gctgatagct	tactactagg
actgtggcga	ctctgcagag	tcactcacac	cgttcgtacg	ccaggacag	ctggttctgt
gtttttacat	tcaataacaa	ctattatgat	tatttaaaaa	gagaaaagtt	cagatttggc
attcaaggct	tatttatata	tatgtgtgtg	tataataata	catgcacaca	cttgcatata



[illegible]

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## FIG. 8B-2

730 740 750 760 770 780  
 tccccgtcatcgcccaactattacctcaccactctggtgatgaggtgatgagggcaggcaagc  
 P L I A H Y Y L T T L D E A D E A G K R

790 800 810 820 830 840  
 ggatttttgggtccccgggtgggggaacgagctgtgctgaggtgaagcacgtgtgctggtatctgt  
 I F G P R V G N E L C E V K H V L D L C

850 860 870 880 890 900  
 gcgcgatccgggagtcggtgagtgagagctcctgcagctggagggccaagcgccaagagc  
 R I R E S V S E E L L Q L E A K R Q E L

910 920 930 940 950 960  
 tgaacagcgagatcgccaagctgaatctgaagatcgaagcctgtgaagaagagcattgaga  
 N S E I A K L N L K I E A C K K S I E N

970 980 990 1000 1010 1020  
 acgccaagcaggacctgtctccagctcaagaatgtcatcagccagaccgagcattcctcaca  
 A K Q D L L Q L K N V I S Q T E H S Y K

1030 1040 1050 1060 1070 1080  
 aggagctcatggcccagaaaccagcccaagctgtccctgcccatccgactgctcccgagc  
 E L M A Q N Q P K L S L P I R L L P E K

1090 1100 1110 1120 1130 1140  
 aggagatgcgcggcctccctccccgaaggccactcggggctgcgggctcacacaactgtct  
 D D A G L P P P K A T R G C R L H N C F

1150 1160 1170 1180 1190 1200  
 ttgattattctcgttgcctctcaccctctggtctcccggtctacgtctatgacagtggcc  
 D Y S R C P L T S G F P V Y V Y D S D Q

1210 1220 1230 1240 1250 1260  
 agtttgcctttggcagctacctggatcccttgggtcaagcaggcttttcaggcgacagcac  
 F V F G S Y L D P L V K Q A F Q A T A R

1270 1280 1290 1300 1310 1320  
 gagctcaagctttatgttacagaaaatgcagacatcgctgcctttacgtgtatctagtgg  
 A N V Y V T E N A D I A C L Y V I L V G

1330 1340 1350 1360 1370 1380  
 gagagatgcaggagcccgctggtgctgctggcctgctgagctggagaagcagttgtattccc  
 E M Q E P V V L R P A E L E K Q L Y S L

1390 1400 1410 1420 1430 1440  
 tgccacactggcgagcggatggacacacacccatgtcatcatcaatctgtcacgttaagtcag  
 P H W R T D G H N H V I I N L S R K S D

1450 1460 1470 1480 1490 1500  
 atacacagaaccttctctataacgtcagtaactggccgtgccatggtggcccgagccacct  
 T Q N L L Y N V S T G R A M V A Q S T F

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FIG. 8B-3

1510 1520 1530 1540 1550 1560  
tctacactgtccaggtacagacctggctttgacttggtcgatatcaccgctggtccatgccca  
Y T V Q Y R P G F D L V V S P L V H A M

1570 1580 1590 1600 1610 1620  
tgtctgagcccaacttcattggaaatcccaccacaggtgcccgggtgaagcggaatatctct  
S E P N F M E I P P Q V P V K R K Y L F

1630 1640 1650 1660 1670 1680  
tcaccttcaggcgagagaagattgagctctctgaggtctagccttcaggagggccgctcct  
T F Q G E K I E S L R S S L Q E A R S F

1690 1700 1710 1720 1730 1740  
tcgaagaggaaatggaggcgaccctcccgcgactacgatgaccggatcattgccacccc  
E E E M E G D P P A D Y D D R I I A T L

1750 1760 1770 1780 1790 1800  
tgaaggcggtgcaggacagcaagctggatcaggtccttggtggaattcacctgcaaaaacc  
K A V Q D S K L D Q V L V E F T C K N Q

1810 1820 1830 1840 1850 1860  
agcccaaacccagcctgcccactgagtgggcactgtgtggagagcgggaggaccgcttg  
P K P S L P T E W A L C G E R E D R L E

1870 1880 1890 1900 1910 1920  
aattgtgaaagctctccaccttcgcctcatcattacccccggggaccctcgcttggtta  
L L K L S T F A L I I T P G D P R L V I

1930 1940 1950 1960 1970 1980  
tttctctgggtgtgcaaacaggctctctcgaagccctggaagtcggtgcccgtcccggtgg  
S S G C A T R L F E A L E V G A V P V V

1990 2000 2010 2020 2030 2040  
tgctggggagcaggttccagcttccctaccaggacatgctgcagtggaagcaggcgccccc  
L G E Q V Q L P Y Q D M L Q W N E A A L

2050 2060 2070 2080 2090 2100  
tggtggtgcacaaagcctcggtttaccgaggttcatttctctgcagaagcctctccgata  
V V P K P R V T E V H F L L R S L S D S

2110 2120 2130 2140 2150 2160  
gtgacctctctggcttatgaggcggaaggccgctttctctgggagacttacttctccactg  
D L L A M R R Q G R F L W E T Y F S T A

2170 2180 2190 2200 2210 2220  
ctgacagtattttttaaccgtgctggctatgattaggaactcgatccagatcccgccg  
D S I F N T V L A M I R T R I Q I P A A

2230 2240 2250 2260 2270 2280  
ctcccatccgggaagaggcggcagctgagatccccaccggttcagggaagggcggtggaa  
P I R E E A A A E I P H R S G K A A G T

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## FIG. 8B-4

2290 2300 2310 2320 2330 2340  
 ctgacccccacatggctgacaacggggacctggacgtggggccagtggagacggagccgc  
 D P N M A D N G D L D L G P V E T E P P

2350 2360 2370 2380 2390 2400  
 cctacgcccaccagatacctccgcaatttctactctgactgtcactgtacttttaccgca  
 Y A S P R Y L R N F T L T V T D F Y R S

2410 2420 2430 2440 2450 2460  
 gctggaaactgtgctccagggcctttccatcttttcccccacactcccctttgacccgtgtg  
 W N C A P G P F H L F P H T P F D P V L

2470 2480 2490 2500 2510 2520  
 tgcctccagaggccaaattcttgggctcagggaactggctttccggcctattgtgtgtggag  
 P S E A K F L G S G T G F R P I G G G A

2530 2540 2550 2560 2570 2580  
 ctgggggttctggcaaggaatttcaggcagcgcttggaggcaatgttccccgagagcagt  
 G G S G K E F Q A A L G G N V P R E Q F

2590 2600 2610 2620 2630 2640  
 tcacggtgtgatgttgacttatgagcgggaggaaagtgtcttatgaactcttttagagaggc  
 T V V M L T Y E R E E V L M N S L E R L

2650 2660 2670 2680 2690 2700  
 tgaatggcctcccttacctgaacaaggctcgtgggtgtgtggaatttccccaaagctgccat  
 N G L P Y L N K V V V V W N S P K L P S

2710 2720 2730 2740 2750 2760  
 cagaggaccttctgtggcctgacattggcggttcccatcatgggtccgtactgagaaga  
 E D L L W P D I G V P I M V V R T E K N

2770 2780 2790 2800 2810 2820  
 acagtttgaacaaccgattcttaccctgggaatgaattgagacagaggccatccctgtcca  
 S L N N R F L P W N E I E T E A I L S I

2830 2840 2850 2860 2870 2880  
 ttgatgacgatgctcaccctccgcatgacgaaatcatgtttgggttccgggtgtggagag  
 D D D A H L R H D E I M F G F R V W R E

2890 2900 2910 2920 2930 2940  
 aagctcgggacgcgcatcgtgggcttccctggccgttacccacgcgcatgggacatccccatc  
 A R D R I V G F P G R Y H A W D I P H Q

2950 2960 2970 2980 2990 3000  
 agtctggctctacaactccaactactcctgtgagctgtccatgggtgctgacaggtgctg  
 S W L Y N S N Y S C E L S M V L T G A A

3010 3020 3030 3040 3050 3060  
 ccttctttcacaaagtattatgcctacctgtattcttatgtgatgccccaggccatccggg  
 F F H K Y Y A Y L Y S Y V M P Q A I R D

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FIG. 8B-5

3070 3080 3090 3100 3110 3120  
acatgggtggatgaatacatcaactgtgaggacattgccatgaacttccttgtctccaca  
M V D E Y I N C E D I A M N F L V S H I

3130 3140 3150 3160 3170 3180  
tcactcggaagcccccatcaagggtgacctcacggtggacattccgatgccaggatgcc  
T R K P P I K V T S R W T F R C P G C P

3190 3200 3210 3220 3230 3240  
ctcaggccctgtctcatgatgactcccacttcacgagcggcacaaagtgcataactct  
Q A L S H D D S H F H E R H K C I N F F

3250 3260 3270 3280 3290 3300  
tcgtgaagggtgtacgggtacatgccccctcctgtacacgcagttcaggggtggattctgtgc  
V K V Y G Y M P L L Y T Q F R V D S V L

3310 3320 3330 3340 3350 3360  
tcttcaagacacgcctgccccatgacaagaccaagtgccttcaagttcatctaggggcagc  
F K T R L P H D K T K C F K F I \*

3370 3380 3390 3400 3410 3420  
gcacgggtctggggaagaggatgagcagaggaggagaagatggctcccaaggttccttaggca

3430 3440 3450 3460 3470 3480  
ttgcaggaccttgggcacacatctgctggtgggtggcccgagagcctctgctggaaggggcag

3490 3500 3510 3520 3530 3540  
caggaggagtgggaaggaaaccgctgcctttatcttgaagtcagccacactgggcctggag

3550 3560 3570 3580 3590 3600  
ccttggggcggagtcctcccggggttccccacacagggcactgactgatagcttacactgagg

3610 3620 3630 3640 3650 3660  
actgtggcgactctgcagagtcactcacaccgttcgtacgcccaggacagctgggttcgtg

3670 3680 3690 3700 3710 3720  
gtttttacattcaataacaactattatgattatttaaaagagaaagtttcagatttggc

3730 3740 3750 3760 3770 3780  
attcaaggcttatttatatatatgtgtgtgtatataaaatcatgcacacacttgcatata

3790 3800 3810 3820 3830 3840  
tatatattttggctgggggagtggtgagttttgcctttctaaggaggaggaccgcgcaggc

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FIG. 8B-6

3850 3860 3870 3880 3890 3900  
tcctttgttctgtattctggcggagatgggtcctggccttgtgtcactggcttatcctta

3910 3920 3930 3940 3950 3960  
aagatcatctcccatcctccccagcgccatctgtgtgcagcaaccagaaagggatgaact

3970 3980 3990 4000 4010 4020  
tggccctcttggcggcctggacaaggctctcttccttaccctttctgttgccagtcagcaa

4030 4040 4050 4060 4070 4080  
cctgtaactcacattctcttcccagtgaaatccctgggagcgcctgaccttggtgggctgt

4090 4100 4110 4120 4130 4140  
tcagcttctgtgtgtggggccagcgatttttgaggatttatcttttagggcaggcttgcc

4150 4160 4170 4180 4190 4200  
tccgtacttatccctgtctctcccatcttctcttgttttgagagagaatgaggaagcaaag

4210 4220 4230 4240 4250 4260  
agtgaagaaagataggggctgaagacgccaactcccagatgggtctttctatcctgtcttt

4270 4280 4290 4300 4310 4320  
ctgttgaaacacacgtgtgtgggcctcaggcgctttctgaagtgtcttttcttgattgg

4330 4340 4350 4360 4370 4380  
acaggagatcagcagcgtgcacatctgtgtggctctgaagtggtttgagggtcagcctcc

4390 4400 4410 4420 4430 4440  
tctccctagtgtgagcaagccagtgctccttcgaggaacccaccggctggccgggaagt

4450 4460 4470 4480 4490 4500  
tttacagcaaggcgctgcttgggataattccttgggtgaaattcaccttccccccgctt

4510 4520 4530 4540 4550 4560  
ctgtctggagccccatcctgtgttatctgtgggtttttggaccccctaattgtcagcttggtt

4570 4580 4590 4600 4610 4620  
gtaggactccccgaggtttgggtatgtgtctagaacaatgggaggctgtgatttgcgtgtga

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FIG. 8B-6

4630	4640	4650	4660	4670	4680
agctcacatccagccttggaaatctaacgggcattcacaccccgagttaccactttccact					
4690	4700	4710	4720	4730	4740
ccctgcttaggattctgttccctgggctgaaactgaaataagctaatttttgggtcacg					
4750	4760	4770	4780	4790	4800
gtggcagtagtggggaacctaaggagggtgtgagtggcatttgtcagggatttagcccatgac					
4810	4820	4830	4840	4850	4860
gtgtttcttgaaccctactttctggaagtggagttgactctggaagttttctagcaactg					
4870	4880	4890	4900	4910	4920
aacaaaagctcaggtttgtcctggtcatgcacatgccttaagccagttccgcttctcccta					
4930	4940	4950	4960	4970	4980
gaccttggcatcctgtgcttctatttcttggaaatcgttctcctctgacctgcctgtacc					
4990	5000	5010	5020	5030	5040
acgtgggtccctctcaagtactgttttgaagctgggctccttttgtatagctcccaaccac					
5050	5060	5070	5080	5090	5100
ctgtagggttagctcggtctaagggaactctccccattggcaaacgggaccggccgcgg					
5110	5120	5130	5140	5150	5160
ccaggactgtgtttccaaagggtccccgcgcccaacccacagcatcagcctgtagctcccc					
5170	5180	5190	5200	5210	5220
tgctgaggcagtggttatgtttccagcagtgggggtcagacgccttctctcagaactt					
5230	5240	5250	5260	5270	5280
tctagtgtccctctacctgactcctgacttgtattccttttagcagtagccttctctcct					
5290	5300	5310	5320	5330	5340
cggggagccaaagagtgtgggtgtgtggcgctatatattgtggctgctatttcacatcggtttc					
5350	5360	5370	5380	5390	5400
ttttaatgtgaggaactcacatactgacttcagtgggactcggtgagccggggccgtctct					

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FIG. 8B-8

5410 5420 5430 5440 5450 5460  
tgtggtgggaccccccttagcgggactcagtgagctggggccgtctgtgtggtggagcca

5470 5480 5490 5500 5510 5520  
gggcctctcccttagtgaggcaggtgtcgggcccggaatgtcactggtggatctaag

5530 5540 5550 5560 5570 5580  
aagggtctgagtggtctgacacccaaaacatgccgcaggagggtgtggtgccggtgcttc

5590 5600 5610 5620 5630 5640  
caacaaggacagccctccttgaccctgaaagggaacactggcttgaaggactgcagacagg

5650 5660 5670 5680 5690 5700  
ctctgaggggacagccctcctcagcgagaggcagcaagggtggccacagtgtcactgggtca

5710 5720 5730 5740 5750 5760  
ggtgctctctaccacgggaaagccgcccacctgtgactcgcttgagatgggaaagcggcg

5770 5780 5790 5800 5810 5820  
ccacagaccgggtctccttggtgtctctgtggggcccccctggccaccttgtcctgggtc

5830 5840 5850 5860 5870 5880  
cgcaagggtgcaggagcgctcgttctctgggtggccggcttgctgctccggttttgggtg

5890 5900 5910 5920 5930 5940  
tcttaccataaacaccgtcccagggtctgcaggccaactgtgagcgctgggtccctgggca

5950 5960 5970 5980 5990 6000  
gtgctcctccgtgtggactgtgcctcaggccagggtcaccagctgggggtcctgtccgga

6010 6020 6030 6040 6050 6060  
aggatgggatctttctgggagctgcgcccggacagagtgggagctcctagtttgtggggg

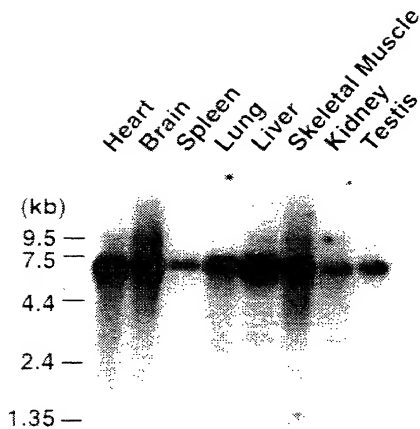
6070 6080 6090 6100 6110 6120  
gaagcttgtatatccatgccacgtccatccaccccaacccttttcgtcacgagacacaatg

6130 6140 6150 6160 6170  
gtcttacattggatttttgtaaaaaaataaaaaataatggagactttaactc

FIG. 9A

Murine	TREX	1	MTGYTLNRNGGAGNGGQTCMLRWSNRRLTWSFTLFLVLFVFPPLIAHYHYYLTLDDEADEN
Human	TREX	1	MTGYTLNRNGGAGNGGQTCMLRWSNRRLTWSFTLFLVLFVFPPLIAHYHYYLTLDDEADEN
Murine	TREX	61	GKRIFGPRMGNELCEVKHVLDLCRIRRESVSEELLQLEAKROELNSETAKLNLKTEACKKS
Human	TREX	61	GKRIFGPRMGNELCEVKHVLDLCRIRRESVSEELLQLEAKROELNSETAKLNLKTEACKKS
Murine	TREX	121	TENAKODLLQLKNVITQTEHSYKELMAQNPKLSLPIRLLPKDDAGLPPPKVTRGCRLLH
Human	TREX	121	TENAKODLLQLKNVITQTEHSYKELMAQNPKLSLPIRLLPKDDAGLPPPKVTRGCRLLH
Murine	TREX	181	NCFDYSRCLPTSGFPVYVYDSDFVFGSYLDPLVKQAFQATVRANVYVTENAAIACLYV
Human	TREX	181	NCFDYSRCLPTSGFPVYVYDSDFVFGSYLDPLVKQAFQATVRANVYVTENAAIACLYV
Murine	TREX	241	LVGEHQEPIWLRPADLEKQLFSLPHWRTDGHNHVINLRSKSDTONLNYNVSTGRHVAQ
Human	TREX	241	LVGEHQEPIWLRPALEKQLFSLPHWRTDGHNHVINLRSKSDTONLNYNVSTGRHVAQ
Murine	TREX	300	STLYADYRAGFDLVVSPLVHAMSEPNFHEIPQVPVKRYLFTFQGEKIESLRSSLQEA
Human	TREX	301	STLYADYRAGFDLVVSPLVHAMSEPNFHEIPQVPVKRYLFTFQGEKIESLRSSLQEA
Murine	TREX	360	RSFEEMEGLDPPADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTWEALCGERED
Human	TREX	361	RSFEEMEGLDPPADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTWEALCGERED
Murine	TREX	420	RLELLKLSTFALIITPGDPRILVSSGCATRLFEALEVGAVPVVLGEQVQLPYDMLQWNE
Human	TREX	421	RLELLKLSTFALIITPGDPRILVSSGCATRLFEALEVGAVPVVLGEQVQLPYDMLQWNE
Murine	TREX	480	AALVVPKPRVTEVHFLRLSLSDSLLAMRRQGRFLWETYFTADSI FNTVLAMIRTRIQI
Human	TREX	481	AALVVPKPRVTEVHFLRLSLSDSLLAMRRQGRFLWETYFTADSI FNTVLAMIRTRIQI
Murine	TREX	540	PAAPIREEAIAEIPHRSGKAAGTDPNHADNGDLGLGPVETEPYASPKYLRNLTFTVTD
Human	TREX	541	PAAPIREEAIAEIPHRSGKAAGTDPNHADNGDLGLGPVETEPYASPKYLRNLTFTVTD
Murine	TREX	600	YRSHNCAFGPHFLFPHTFPDPLPSEAKFLGSGTGFRPIGGGAGSGKEFOAALGGNVQR
Human	TREX	601	YRSHNCAFGPHFLFPHTFPDPLPSEAKFLGSGTGFRPIGGGAGSGKEFOAALGGNVQR
Murine	TREX	660	EQTTVVHLTYEREVLMLNSLERLNGLPYLKNKVVVWVNSPKLPSEDLLWPDIGVPIHVVRT
Human	TREX	661	EQTTVVHLTYEREVLMLNSLERLNGLPYLKNKVVVWVNSPKLPSEDLLWPDIGVPIHVVRT
Murine	TREX	720	EKNSLNNRFLPWNEIETEAILSIDDAHLRHDEIHFGFVWREARDRIVGFPGRYHAWDI
Human	TREX	721	EKNSLNNRFLPWNEIETEAILSIDDAHLRHDEIHFGFVWREARDRIVGFPGRYHAWDI
Murine	TREX	780	PHQSHLYNSNYSCELSMVLGTGAAPFHXYAYLYSYVMPOAIRDMVDEYINCEDIAMNFLV
Human	TREX	781	PHQSHLYNSNYSCELSMVLGTGAAPFHXYAYLYSYVMPOAIRDMVDEYINCEDIAMNFLV
Murine	TREX	840	SHITRKPIIKVTSRWTFRCPCGCPQALSHDDSHFERHHCINFFVKVGYGMPLLYTQFRVD
Human	TREX	841	SHITRKPIIKVTSRWTFRCPCGCPQALSHDDSHFERHHCINFFVKVGYGMPLLYTQFRVD
Murine	TREX	900	SVLFKTRLPHDKTKCKFKFI
Human	TREX	901	SVLFKTRLPHDKTKCKFKFI

FIG. 9B



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FIG. 10A

empty	+	+	-	-	+	+	+	+
EXTL3	-	-	+	+	-	-	-	-
TNF- $\alpha$	-	+	-	-	+	+	+	+
competitor	-	-	-	-	+	-	-	-
control Ab	-	-	-	-	-	+	-	-
anti p50 Ab	-	-	-	-	-	-	+	-
anti p65 Ab	-	-	-	-	-	-	-	+

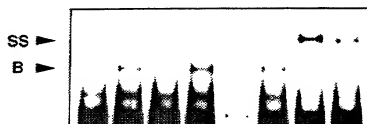


FIG. 10B

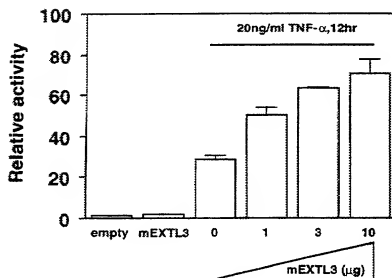


FIG. 10C

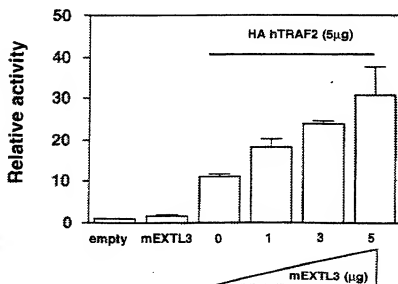




FIG. 11A

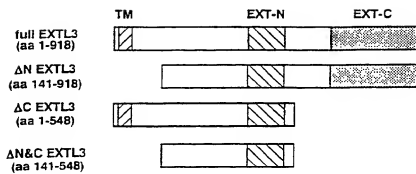


FIG. 11B

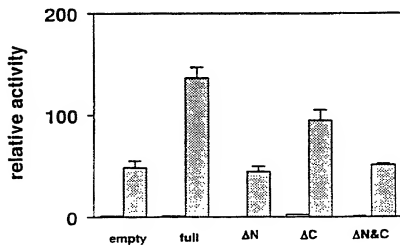


FIG. 11C

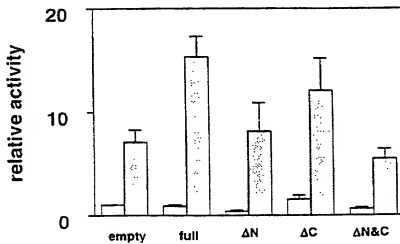


FIG. 11D-a

FIG. 11D-b

FIG. 11D-c

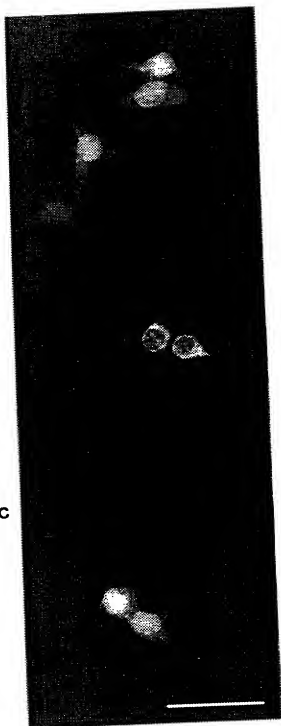


FIG. 12A

FIG. 12B

FIG. 12C

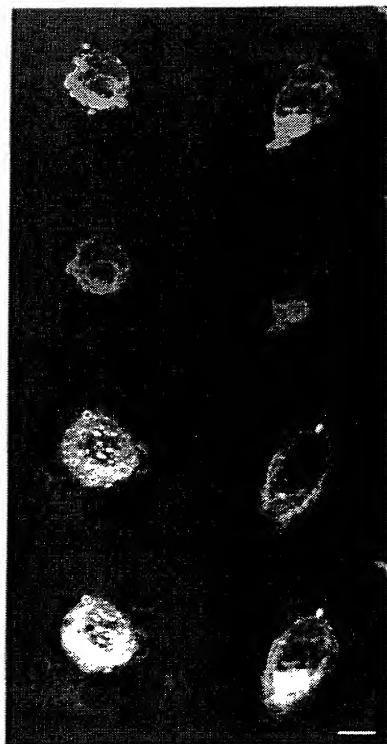
FIG. 12D

FIG. 12E

FIG. 12F

FIG. 12G

FIG. 12H



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